



## Fleet Training

July 2009

Vol. 2

### Welcome

Welcome to this edition of the SOBT Newsletter *All On Board*. SOBT training products are tools to be used not just for the qualification process, but also for proficiency training. In addition to basic submarine system qualification training products, SOBT offers many interactive products that can be used for continuing and proficiency training, specifically Submarine Skills Network (SubSkillsNet), Engineering Skills Network (EngSkillsNet), Sonar Basic Operator Training (SBOT), and Combat Basic

Operator Training (CBOT). Each of these tools allows individual training, but can also be used for watch team seminar support or to run watch team training scenarios. Each of these interactive products includes an instructor station, for setting up the additional stations and inputting scenarios, and the operator stations, where the training takes place. These interactive training products can be used wherever your SOBT is located; on the ship's LAN, in the off-crew office, the yard barge or at your local learning resource center (school house). I encourage you to use these tools to conduct training from entry level through advanced training scenarios as you build your team's knowledge, skills and abilities in support of operational excellence.

I welcome your feedback and look forward to hearing from you as SOBT and SLC work to provide you the tools for future operational success. Call, write or visit!

Commanding Officer  
Submarine Learning Center

### Director's Note

In the previous edition I discussed HOW to access the SOBT Training products. In this edition I will speak on WHY to use the SOBT products. SOBT products provide knowledge on many topics such as ship's systems in support of watch station qualification. SOBT is often a great starting point when learning a new system or qualifying a new watch station. Our products provide the theory, usually graphically, to convey how a system works, what it looks like, and where it is located. Having this knowledge arms you with the facts to begin exploration, and then to ask the busy subject matter expert your pertinent questions about the system or watch station. Being a submariner comes with a tradition of having detailed knowledge of the entire ship. This Submarine Force tradition results from our long history and the demanding nature of submarine operations. Having that detailed knowledge of the entire submarine is not easy; it's accomplished through hard work. Along with working hard, remember to "work smart" by also using the right tools in the training toolbox, including SOBT products.

We look forward to hearing your comments on these products, how

*Continued on page 2*

### Inside this issue:

<b>Wardroom Training</b>	<b>2</b>
<b>Nuclear Training</b>	<b>2</b>
<b>Navigation</b>	<b>3</b>
<b>Fire Control</b>	<b>3</b>
<b>Lessons Learned</b>	<b>4</b>
<b>Sonar Systems</b>	<b>4</b>
<b>Communications</b>	<b>4</b>
<b>TM Weapons</b>	<b>5</b>
<b>Points Of Contact</b>	<b>6</b>





*Continued from page 1*

they are working for you, and what can be done to improve them.

SOBT Director  
Submarine Learning Center

## Wardroom Training

The SS Rest of World Visual Recognition (DODUSNSLCSOBT\_97009) product is a great tool for all of us who spend time on the Scope. This product helps us establish and maintain proficiency in identifying rest-of-the-world platforms that we may encounter while operating overseas. It provides us with the ability to identify and recognize several surface combatants, submarines, and ASW aircraft in different regions of the world. You will be able to practice your visual recognition skills for any nation you are interested in prior to deploying. Some of the nations include: China, North Korea, Iran, Pakistan, and India. SS Rest of the World Visual Recognition will challenge you to identify the platforms and recognize which ones are considered to be a threat. The product also includes a section on merchant ship recognition that will teach you how to recognize and classify merchant vessels based on appearance group, hull type, and upright sequence.

Training Project Manager  
Submarine Learning Center

## SOBT Training Integration

SOBT aims to develop, deliver, and maintain relevant training based on Type Commanders requirements. We maintain a catalog of courseware designed to provide effective training that functions in current and future Information Technology environments. Much of the training we produce is designed to support qualifications, proficiency, and recurring on board training requirements.

SOBT is a contributor to improved fleet readiness. We are working with the Submarine Learning Center and Submarine Type Commanders to analyze knowledge and performance gaps, prioritizing requirements, and developing new training or improving existing training products for use on board

all Submarine Force components.

SOBT is working to integrate courseware into the Training Continuum. As we work with the Submarine Learning Center, we continue to identify where existing and developing courseware best integrates with the schoolhouse curriculum to provide prerequisite training, blended training, or on board continuing training to optimize learning opportunities and learning effectiveness for the fleet.

SOBT continues to develop and maintain development guidelines to optimize performance and future viability of our courseware. We work hard to develop methods of producing courseware that, as much as practical, will ensure that our catalog can be maintained and updated to the best support possible to the submarine force.

SOBT Program Manager

## Nuclear Training



SSN 688 ENGSKILLSNET VER 3.5: Are you still using that white board for your watch team scenarios during departmental and divisional training? How about something a little more interactive? With the latest version of ENGSKILLSNET you can revolutionize your training program and keep your training group awake and attentive. This latest version allows you to insert casualties and plant anomalies at the click of a mouse in real time. This will force your watch team to take quick and immediate action to stabilize the plant or reap the consequences of taking no action at all. To make the scenarios more complex we also give the option to use a top down view of the engine room to allow your watch standers to locate the valves in the engine room at their actual location with pinpoint accuracy. Don't let your division continue to suffer with the same loss of lube oil seminar, talk to your LAN administrator and install ENGSKILLSNET today.

*Continued on page 3*



Continued from page 2

BEQ: Are you up to speed on your turbine theory? Are you drawing a knowledge vacuum on air ejector theory? Have those steam plant heat transfer equations got you down? Have we got a product for you! Take a look at the SS Basic Engineering Principles DODUSNSLCSOBT\_04322 course to re-familiarize you with the basics of how your engine room and diesel generator works. This is a great product for newly reporting personnel or those who just want a refresher. This product combines theory and animation to teach you the basics of steam plant theory. Before you know it you will be wowing the Engineer on your next level of knowledge interview.

BEQ/Nuclear Training Project Manager



## SOBT Navigation News

Fellow Navigators -

It is time to navigate a new version of SubSkillsNet. SOBT will be distributing SubSkillsNet 6.6 to the Fleet. We have made some improvements to this widely used tool and with feedback from you we can continue to improve the product in the future.

One enhancement is to the AN/BPS-15H. We are trying to make every application as realistic as possible. We have added the ability to start up the radar as if you were starting it on the boat. You must wait the actual time as you normally would with the real system. This is working towards being able to utilize the radar in SubSkillsNet as a tool to work in conjunction with the qualification card. You can also build Navlines, again to teach "how to" without having to power up the radar.

We have added the AN/BQN-17A. We know the Fleet is transitioning to the newer fathometer and

keeping with the upgrades is always a goal. This is another chance to teach our operators how to operate a piece of equipment without using the equipment.

Here are some items for the future: SOBT is in the process of revising the SS Piloting Briefs for Bahrain, Groton, CT, and San Diego, CA. Look for these in the near future. We continue to strive to provide the best product to the Fleet and with your help and feedback we can improve the training for the future - these are all tools in your toolbox. Do not forget the more feedback you provide the better we at SOBT can support *you*, the customer.

If you have any questions, lessons learned, or other feedback feel free to contact me and we can and will work together to improve our products.

Respectfully,

SOBT Navigation Project Manager

## Fire Control Technicians

I'm certain most of you have the same thoughts about SOBT, "Not much to offer FT's." I'm pleased to inform you that a lot has changed and there are several great products now available to enhance your rating/ system knowledge and provide a "Measure of Effectiveness" to your training program!

**SS Mental TMA Techniques** - This product covers: LOS, Torpedo Fire Control Geometry, Sine tables, Bearing and Range Rate; Eklund and Crossed Bearing Ranges, as well as: Evaluation of Basic Frequency Analysis and various Sonar Ranging techniques. Each section contains a Drill and Practice section, as well as an end of lesson exam.

**SS Fusion Plot Employment** - This course provides training on basic functions and employment of the Fusion Plot including: 1. Setup, tools and techniques 2. Specific data points as related to target and own ship maneuvers 3. Mission specific tools & techniques for STW, ISR, ASW, SUW.

**ADCAP Post Launch Trainer Version 14.0** - A new release has just been reviewed by SOBT and will be released in just a few short weeks. This product is outstanding and provides guided scenarios to the newest guys in the division. You're experienced? There's an entire set of scenarios designed to test your level of knowledge, too.

Continued on page 4





*Continued from page 3*

If you have SOBT questions or ideas for new and/or updates to existing products, please feel free to write to me at [christopher.killian@navy.mil](mailto:christopher.killian@navy.mil). Don't forget the entire SOBT catalog is available online. Simply Google SOBT and click the first link.

Thank you,

Fire Control Systems Manager



## Will Your Boat Be Next In The Headlines?

We all agree that a collision at sea is a bad day for a submarine, but the aftermath of an incident is always more expensive and painful. The never ending days of maintenance, training and inspections are sure to follow before your ship is ready for its next mission. A little prior training to learn from past incidents may help prevent your boat from making the front page for the wrong reasons.

SS Collisions Presentations Volume 1 and 2, DODUSNSLCSOBT 06030 and 08037, provide training on many past collisions. The interactive courses are designed as individual training or they can be used for group discussions and seminars. Each volume has several separate modules with earlier incidents on volume one and more recent incidents on volume two. The trainees have the option to view each volume in its entirety or select specific incidents as applicable to your training needs.

The modules have three basic topics that cover the Summary of Events, Facts and Findings, and Lessons Learned. The Summary of Events begins prior to the incident, allowing the trainee to understand the command climate and any mitigating circumstances that may have contributed to the outcome. This section is followed by a sanitized version of the JAG investigation that condenses all

the specific Facts and Findings into an interactive topic. The modules conclude with a Lessons Learned topic outlining errors made and providing recommendations to prevent future incidents.

The modules may contain discussion points but there is not a test to determine your level of understanding. The true test is successfully completing your next mission and avoiding the headlines.

Strategic Weapons/Wardroom Support

## Sonar Systems

Shipmates,

I am the SOBT Sonar Systems project manager. We have a lot of great products out there to enhance your training program and keep your sailors sharp. Take a look at SS AN/BQQ-10 Sonar Supervisor, DODUSNSLCSOBT\_07040. This product contains lessons that will cover many of the knowledge requirements for qualification as a Sonar Supervisor. Topics include: Duties and Responsibilities, Tactical Guidelines, Sonar and Sensor Employment, Tactical Aspects of Sonar Search, Detection and Classification, Post Detection Procedures, Updating the Sonar Search Plan, and several more. As always, I am looking for feedback on existing products and ideas for new products to enhance fleet readiness. If you have any questions let me know.

Sonar Systems Project Manager

## Communications

We currently have over 30 various SOBT communications products available in our catalog to help all classes of submarine Communications Divisions. If you would like a refresher, just learning the radio room, or are looking for some divisional training, take a look at our SOBT catalog and see if anything suits your needs.

SS EHF Communications Overview and Operational Procedures Phase 2 (DODUSNSLCSOBT\_06021 Version 1.00) is a continuation of the SS EHF Communications Overview

*Continued on page 5*



*Continued from page 4*

and Operational Procedures Phase 1 (DODUSNSLCSOBT\_05002 Version. 1.00). This courseware is an excellent tool for a refresher on EHF operation and procedures, or an excellent first step into EHF operation. This courseware provides continuation training of operational procedures pertaining to the Submarine EHF Communications System up through the latest system modification (I.e. FOT) installed on the submarines

We are constantly updating and producing SOBT products, so feel free to send feedback if you find any issues in any of my products such as outdated information, no longer held onboard, or looking for a new product to be produced. I am always looking for ways to make our product more accurate and enjoyable to use.

Communications Project Manager

## TM Weapons/Force Protection

Weaponers,

I would like to begin by giving you a peek at some of the products that will be available to the fleet in the near future. First and foremost, the new and improved Mini-WLCTT, will be out next year. This simulator update will feature better graphics, more improved functionality, greater flexibility, and (my personal favorite) the ability to run the program across the ship's LAN. This means that there will be no bulky suitcase full of computers that the ship has to store somewhere. Some courses nearing the end of the development stroke are updates to the SS ADCAP Functional Description and SSBN TRW Qualifications courses. SOBT takes pride in its effort to continuously generate products that concur with upgrades in technology. The graphics and functionality contained in these new courses are also far more advanced from the products that were available only three years ago.

One of the products that I would like to highlight

is the SS MK48 TMD and Control Cable Operational Procedures, DODUSNSLCSOBT\_06037 version 1.00. This lesson provides Combat Systems and Weapons training on the MK 48 Torpedo Mounted Dispenser (TMD), including installation, wire routing and attaching IAW OD 44979 as well as Control Cable operational procedures. Also included are the training topics: MK48 wire-guide components, improved control cable procedures, fire control interfaces, guidance wire pay-out and position, and communication wire slices, connections and test. This training also provides step-by-step instruction through the process of all of the various splices by using a "virtual tool bag." This will allow the user to select the correct (simulated) tool from the tool bag.

This way, the user can get a visual of the tools that are used when dealing with a TMD and ADCAP. Another area of interest embedded in this course is the detailed instructions for the Post Launch procedures per the NAVSEA OD 44979. This computer based training lesson was developed for newly reporting personnel with minimal experience, but can also be used in a group based session and for refresher training or sailors that are rotating back to the fleet.

Please help SOBT with development of its products and quality of training provided to the fleet by commenting on what is currently available, or if you would like to provide a topic for further consideration, please contact me .

Thank you for your time and have a great Navy Day!

SOBT TM Weapons/Force Protection



### On the Front Cover:

PACIFIC OCEAN (Nov. 19, 2008) The guided-missile submarine USS Ohio (SSGN 726) steams through the water at the culmination of ANNU-ALEX 2008. U.S. Navy photo by Mass Communication Specialist 2nd Class Clifford L. H. Davis (Released)



## Submarine Learning Center Points of Contact

COMM: (860) DSN: 694-1716



**SLC Commanding Officer**

**Ext. 1701**

**SOBT Director/Wardroom**

**Ext. 1769**

**SLC CMDCM**

**Ext. 1710**

---

### SOBT Points of Contact

COMM: (860) DSN: 694-5507

Fax (860) 694-2212

<b>SOBT Program Coordinator</b>	<b>Ext. 32</b>	<b>SOBT Program Manager</b>	<b>Ext. 27</b>
<b>SOBT Learning Standards Officer</b>	<b>Ext. 31</b>	<b>Strategic Weapons/Wardroom Support</b>	<b>Ext. 33</b>
<b>SOBT Navigation</b>	<b>Ext. 29</b>	<b>SOBT MHM&amp;E/Safety/Seawolf Qual Program</b>	<b>Ext. 30</b>
<b>SOBT TM Weapons/Force Protection</b>	<b>Ext. 18</b>	<b>SOBT Software Engineer</b>	<b>Ext. 13</b>
<b>SOBT BEQ/Nuclear Qualifications</b>	<b>Ext. 21</b>	<b>SOBT Software Engineer</b>	<b>Ext. 15</b>
<b>SOBT Engineering/Auxiliary Systems</b>	<b>Ext. 20</b>	<b>SOBT Senior Programmer</b>	<b>Ext. 16</b>
<b>SOBT Sonar Systems</b>	<b>Ext. 26</b>	<b>SOBT Database Manager</b>	<b>Ext. 11</b>
<b>SOBT Fire Control Systems</b>	<b>Ext. 23</b>	<b>SOBT Administration/Editor/Products</b>	<b>Ext. 12</b>
<b>SOBT Radio Systems</b>	<b>Ext. 28</b>	<b>SOBT Administration/Orders</b>	<b>Ext. 14</b>